

SPECIAL CONTRIBUTIONS.

RECENT PUBLICATIONS.

By W. F. R. PHILLIPS, M. D., in charge of Library, Weather Bureau.
(Dated March 7, 1898.)

Anales de la Oficina Meteorologica Argentina par su Director Gualterio G. Davis. Tomo XI. 4°. P. 502. Buenos Aires, 1897. *Annalen der Schweizerischen Meteorologischen Central-Anstalt*, 1895. Der Schweiz. Meteorolog. Beobach. Zweiunddreißigster Jahrgang. 4°. P. 366. Zurich.

Annals of the Cape Observatory. Vol. III. *The Cape Photographic Durchmusterung for the Equinox*, 1875, by David Gill, H. M. Astronomer at the Cape, and J. C. Kapteyn, Professor of Astronomy, Groningen. 4°. P. LXVII, 649. London, 1896.

Annuaire de l'Observatoire Royal de Belgique, 1898, 65e année. 12°. P. VIII, 447. Bruxelles, 1898.

Annual Report of the [U. S.] Lighthouse Board to the Secretary of the Treasury for the fiscal year ended June 30, 1897. 8°. P. 218, charts 16. Washington, 1897.

Annual Report of the Central Meteorological Observatory of Japan for the year 1895. Part I. Meteorological Observations in Japan. 4°. P. 207. Tokio.

Experimental Undersökning of den Ventilerade Psykrometern af Aron Svensson. 8°. P. 26 and plate. Stockholm, 1896. Reprint from *Bihang till k. Svenska Vet. Akad. Handl.* Bd. 21, Afd. I. No. 5.

Fenologiska iakttagelser vid Framnas aren 1877-96, af Axel Arnel. 8°. P. 6. Reprint from *Ofversigt af Vet. Akad. Forhand.* 1896. No. 10.

Jahrbuch der Erfindungen. Begründet, von H. Gretschel und H. Herzel, Herausgegeben von A. Berberich, Georg Bornemann und Otto Müller. Dreiunddreißigster Jahrgang. 12°. P. 384. Leipzig, 1897.

Jersey. Observatoire St. Louis. Bulletin des Observations Meteorologiques, 1894, 1895, 1896, 1897. 4°. St. Helier, 1895, 1896, 1898. Paris, 1897.

Klima-Tabellen for Norge. III Luftens Fugtighed. H. Mohn. 4°. P. II. Kristiana, 1897.

Meteorology in Mysore for 1896. Being the results of observations at Bangalore, Mysore, Hassan, and Chitaldrug, by John Cook. 4°. P. XIV-56 and charts. Bangalore, 1897.

Ministère des Travaux Publics [France]. Observations sur les Cours d'Eau et la Pluie centralisées pendant l'année 1896, sous la direction de M. Fargue, Directeur du Service Hydrométrique du Bassin de la Seine, par M. G. Lemoine, Ingénieur-en-chef, et M. Babineau, Ingénieur des Ponts et Chaussées. 2°. P. 14. Versailles, 1897.

Ministère des Travaux Publics [France]. Résumé des Observations Centralisées par le Service Hydrométrique du bassin de la Seine pendant l'année, 1896, par M. Bibineau, Ing. des Ponts et Chaussées. 8°. P. 56. Versailles, 1897.

Ninth Annual report of the Rhode Island Experiment Station, 1896. 8°. P. XIX-380. Providence, 1897.

Observations and Researches made at the Hongkong Observatory in the year 1896. By W. Doberck, Director. 4°. P. 196, 2 plates. Hongkong, 1897.

Osservazione Astronomiche e Fisiche sull'asse di relazione e sulla topografia del Pianeta Marte fatta nella reale specola di Brera in Milana nell'Equatoriale di Merz (Opposizione del 1896). Memoria Quinta. G. V. Schiaparelli. 4°. P. 50. Tav. III. Roma, 1897. Reale Accademia Dei Lincei. Anno. CCXCIV.

Om 1.4—Azthinderivat af N. A. Langlet. 8°. P. 27. Stockholm, 1896. Bihang till K. Svenska Vet. Akad. Handl. Bd. 22. Afd. II. No. 1.

On some Nuclei of Cloudy Condensation, by John Aitken. Trans. Roy. Soc. Edin. Vol. XXXIX. Part I. No. 3. 4°. P. 25, and plate. Edinburgh, 1897.

Oversigt over Luftens Temperatur og Nedboren i Norge i Aaret, 1896. Meddelt ved det. Meteorologiske Institute. 8°. P. 20. Kristiana, 1897.

U. S. Commission of Fish and Fisheries. Report of the Commissioner for the year ending June 30, 1897. 8°. Washington, 1898. P. 171.

Report of the Imperial Russian Geographical Society. Vol. XXXIII. 1897. Part IV. 8°. St. Petersburg, 1897.

Report of the Meteorological Service of the Dominion of Canada, R. F. Stupart, Director, 1890. 8°. P. XLVI, 322. Ottawa, 1895. Also report of same service for 1895.

Royal Society of London. Philosophical Transactions, Series A. Vol. 187, 188, 189. London, 1895, 1896, 1897. 4°. P. 750, 661, 311, respectively.

Smithsonian Institution. Bibliography of the Metals of the Platinum Group: Platinum, Palladium, Iridium, Rhodium, Osmium, Ruthenium, 1848-96. By James Lewis Howe. 8°. P. 318. Washington, 1897.

Studier over Planternes periodiske Livsytringer. I. Om antagomistiske Virksomheder i Stofskiftet, saerlig under Modning og Hvile, af W. Johansen. 4°. P. 117. Copenhagen, 1897. D. Kgl. Danske Vidensk. Selsk. Skr., 6 Raekke, natur-vid. og. Math. Afd. VIII, 5.

The Barometrical Determination of Heights, A Practical Method of Barometrical Levelling and Hypsometry for Surveyors and Mountain Climbers. By F. J. B. Cordeiro, Surg. U. S. N. 12°. P. 28. New York, 1898.

The Floods of the Mississippi River, including an account of their principal causes and effects, and a description of the levee system and other means proposed and tried for the control of the river, with a particular account of the great flood of 1897. By William Starling. 4°. P. 57. New York. (Reprint of articles in Engineering News, New York, of June 30, April 22, 29, and July 1, 1897.)

The Proceedings and Transactions of the Nova Scotia Institute of Science, Halifax, N. S. Session of 1896-97. Vol. IX. (Being Vol. II of new series.) Part 3. 8°. P. CVI, 290. Halifax, 1897.

U. S. Coast and Geodetic Survey Catalogue of Charts, Coast Pilots, and Tide Tables, 1897. 8°. P. 140. Washington, 1897.

U. S. Department of Agriculture. Bulletin 48. Office of Experiment Stations. Report to Congress on Agriculture in Alaska, including reports by Walter H. Evans, Benton Killin, and Sheldon Jackson. Prepared under the supervision of A. C. True, Director of the Office of Experiment Stations. 8°. Washington. P. 36, 23 plates.

CLIMATOLOGICAL DATA FOR JAMAICA, W. I.

Through the kindness of Mr. Maxwell Hall, of Montego Bay, Jamaica, the meteorological service of that colony has acceded to the request of the Editor for the prompt communication of an abstract of the very interesting climatological records of that highly important West Indian service. The climatological summary for January, 1898, furnished by Mr. Hall, through his assistant, Mr. Robert Johnstone, of the Meteorological Office, is reproduced in the following table. For descriptive details of the stations and instruments see Vol. XXV, pages 308 and 356.

Jamaica, W. I., climatological data, January, 1898.

	Mount Point Lighthouse.	Neerli Point Lighthouse.	Kingston.	Montego Bay.	Castleton Gar- dens.	Hope Gardens.	Stony Hill Re- formatory.	Hill Garden (Ch. Plant.)
Latitude	17° 56'	18° 16'	17° 58'	18° 12'	.....	.....	18° 05'	18° 05'
Longitude	70° 10'	78° 23'	70° 48'	78° 50'	.....	.....	78° 39'	78° 39'
Elevation (feet)	8	33	50	580	600	1,400	4,907	4,907
Mean barometer { 7 a. m.	29.988	30.003	30.008	29.999	29.641	29.27	25.37	25.37
{ 3 p. m.	29.940	29.941	29.928	29.938	29.609	29.28	25.361	25.361
Mean temperature { 7 a. m.	77.6	71.2	69.2	68.7	65.7	65.6	66.3	57.1
{ 3 p. m.	80.8	82.1	84.1	80.1	78.2	82.3	77.7	64.1
Mean of maxima .....	.....	84.0	86.8	81.7	84.8	87.7	88.7	67.4
Mean of minima .....	.....	68.2	68.1	67.3	60.4	63.2	63.1	53.1
Highest maximum	87	93.5	85.0	85	92	86	73	73
Lowest minimum	63	63.4	63.1	55	59	54	46	46
Mean dew-point { 7 a. m.	65.8	62.7	65.0	64.8	62.1	63.9	51.7	51.7
{ 3 p. m.	69.4	66.6	68.0	70.0	69.7	72.0	58.6	58.6
Mean relative humidity { 7 a. m.	83	80	88	88	90	90	80	80
{ 3 p. m.	66	57	67	72	67	68	82	82
Monthly rainfall (inches)	1.92	0.89	0.03	0.14	4.67	0.92	0.40	3.04
Average daily wind movement	275.2	56.8	94.0	.....	.....	.....	46.9	46.9
Average wind direction { 7 a. m.	*	ne.	n.	e.	.....	.....	se.	se.
{ 3 p. m.	ne.	var.	+	ene.	.....	.....	e.	e.
Average hourly velocity { 7 a. m.	9.0	12.6	8.1	2.5	.....	.....	.....	.....
{ 3 p. m.	11.0	13.3	5.3	6.3	.....	.....	.....	.....
Average cloudiness (tenths):								
7 a. m. { Lower clouds....	2.6	1.5	0.9	2.1	.....	.....	.....	.....
{ Middle clouds....	2.0	1.1	0.2	0.3	.....	.....	.....	.....
Upper clouds....	0.9	1.8	0.8	1.0	.....	.....	.....	.....
7 a. m. { Lower clouds....	3.5	3.4	2.3	0.4	.....	.....	.....	.....
{ Middle clouds....	1.5	2.0	1.1	1.4	.....	.....	.....	.....
Upper clouds....	0.7	0.8	1.6	0.7	.....	.....	.....	.....

*ne. by n.

+se. by s.